Sadra **Heydari**

Ph.D. student in Economics @ Adam Smith Business School (University of Glasgow)

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Education

Ph.D. in Economics　　　　　　　　　　　　　　　　　　　　　　　📅 Oct 2025 – Aug 2028 (expected)
🏛 University of Glasgow — Adam Smith Business School
Research title: *Strategic Interaction in Industry Dynamics*

MRes in Economics (with Distinction)　　　　　　　　　　　　　　　　　📅 Sep 2023 – Dec 2025
🏛 University of Glasgow — Adam Smith Business School　　　　　　　　　　　　　*GPA: 19.9/22*
Dissertation Title: *Endogenous R&D Network Formation with Heterogeneous Firms.*

B.Sc. in Computer Engineering (Minor in Economics)　　　　　　　　　　📅 Sep 2018 – Jun 2023
🏛 Sharif University of Technology — Department of Computer Engineering　　　　　　*GPA: 17.02/20.0*

Additional Certificates:

(2024) **Summer School on Social Choice & Fair Division**, *Tehran Economic Policy Think Tank*　　[*Certificate*]

Research Interests

- Industry Dynamics
- Endogenous Growth
- Innovation and R&D
- Industrial Organization
- Endogenous Entry/Exit
- Het. Firms models

Publication(s)

Absolute Intragenerational Income Mobility in Iran (2023)　　　　　　　　　　　　🔗 [Link]
Amanzadeh, N. and Heydari, M.S., The Quarterly Review of Economics and Finance. 90: 38-50.

Working Papers

R&D Networks under Heterogeneous Firm Productivities　　　　　　　　　　　　🔗 [Draft]
Heydari, M.S., Kaniz, Z., and Montoya-Blandón, S.

Honors and Awards

2023	**Economics Scholarship (2+3)**	*Adam Smith Business School; University of Glasgow*	Glasgow, UK
2021	**Best Paper**	*4th Iran Economic Forum; Tehran Institute for Advanced Studies (TeIAS)*	Tehran, Iran
2018	**Silver Medal**	*12th International Olympiad on Astronomy and Astrophysics (IOAA)*	Beijing, China
2017	**Gold Medal**	*13th National Astronomy and Astrophysics Olympiad*	Tehran, Iran

Selected Courses

🏛 **Adam Smith Business School (University of Glasgow)**⋆

Macroeconomics	(20/22)	Macroeconomics of Inequality	(19/22)	Industrial Organization	(21/22)
Mathematical Methods	(20/22)	Bayesian Data Analysis	(22/22)	Computational Macro	(20/22)

🏛 **Sharif University of Technology**

Economics Courses		*Mathematical Courses*		*Data-oriented Courses*	
Intro to Macroeconomics	(19.9/20)	Differential Equations	(17.8/20)	Advanced Programming	(19.3/20)
Game Theory⋆	(20.0/20)	Numerical Computation	(17.4/20)	Machine Learning⋆	(16.5/20)
Industrial Organization	(17.3/20)	Discrete Structures	(17.5/20)	Computer Simulation	(19.7/20)

🏛 **Audited and Online Courses**

Using Big Data to Solve Social and Economic Problems (*Harvard*), Natural Language Processing with Deep Learning (*Stanford*), Macroeconomics I⋆, II⋆ (*Sharif*), Microeconomics I⋆ (*Sharif*)

⋆: Graduate (Ph.D.) level Course

Skills

Programming Language: Python (*advanced*), Java (*advanced*), C / C++, SQL.

Statistical Programming Languages: R (*advanced*), Julia (*modest*), Stata, MatLab & Octave.

Tools and Software: MS Excel, LaTeX, Jupyter NB / G Colab, Git / GitHub, Dynare, ArcGIS, Gephi, Vensim.

Language: Farsi/Persian (*native*), English (*fluent - IELTS: 8.0*).

Teaching Experience

Graduate Teaching Assistant 🏛 Adam Smith Busines School — University of Glasgow

- *Econometrics 1*: Fall 2025

Teaching Assistant 🏛 Sharif University of Technology

- *Probability & Statistics*: Fall 2020, Spring 2021
- *Data Structure & Algorithm*: Spring 2021
- *Introduction to Macroeconomics*: Spring 2021
- *Game Theory*: Fall 2021*, Spring 2021

*: Graduate-level Course

Work Experience

Junior Data Scientist | *Metodata*   Jan 2022 - Sep 2022

Collaborated under the supervision of Dr. *Meysam Alizadeh*.

- Household financial transaction analysis & anomaly detection (Central Bank of Iran)
- Public opinion & brand analytics using social media
- Hotel demand prediction for private booking company

Data Engineer Intern | *Institute for Research in Fundamental Sciences (IPM)*   Jun 2020 - Sep 2020

Contributed to the R&D team of Iran's National Observatory (INO) project.

- Weather station data pipeline & analysis
- Night-sky cloud detection

References

Dr. Richard Dennis   </> webpage
✉ richard.dennis@glasgow.ac.uk
Professor in Economics at Adam Smith Business School, University of Glasgow

Dr. Naser Amanzadeh   </> webpage
✉ amanzadeh@berkeley.edu
Assistant Professor in Economics at Graduate School of Management and Economics, Sharif University of Technology

Dr. Zafer Kanık   </> webpage
✉ zafer.kanik@glasgow.ac.uk
Assistant Professor in Economics at Adam Smith Business School, University of Glasgow

Dr. Santiago Montoya-Blandón   </> webpage
✉ santiago.montoya-blandon@glasgow.ac.uk
Assistant Professor in Econometrics at Adam Smith Business School, University of Glasgow